

Title (en)
Laminating adhesives containing microencapsulated catalysts

Title (de)
Laminierklebstoff enthaltend mikroverkapselten Katalysator

Title (fr)
Adhésif stratifié avec catalyseur microencapsulé

Publication
EP 1647587 A1 20060419 (EN)

Application
EP 05021686 A 20051005

Priority
US 96325804 A 20041012

Abstract (en)
The curing rate of a two component laminating adhesive is effectively accelerated by incorporating in at least one component a microencapsulated catalyst. When the laminating adhesive is subjected to an effective amount of pressure (for example, the pressure applied when laminating flexible films together using nip rollers), the catalyst (which may be, for example, a dialkyl tin dicarboxylate) is released from encapsulation and is made available to catalyze the polyurethane-forming reaction between the isocyanate groups and the active hydrogen-functionalized groups in the adhesive mixture.

IPC 8 full level
C09J 175/04 (2006.01); **B01J 13/02** (2006.01)

CPC (source: EP US)
C08G 18/10 (2013.01 - EP US); **C08G 18/246** (2013.01 - EP US); **C09J 175/04** (2013.01 - EP US); **Y10T 428/31504** (2015.04 - EP US); **Y10T 428/31547** (2015.04 - EP US)

Citation (search report)
• [Y] US 2004014860 A1 20040122 - MEIER FRANK [DE], et al
• [X] DATABASE WPI Section Ch Week 200420, Derwent World Patents Index; Class A25, AN 2004-205999, XP002362636
• [XY] DATABASE WPI Section Ch Week 198613, Derwent World Patents Index; Class A81, AN 1986-085014, XP002362637
• [X] DATABASE WPI Section Ch Week 198505, Derwent World Patents Index; Class A25, AN 1985-028530, XP002362638

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EP2049612A4; CN106926553A; CN105451899A; EP3156434A1; US11498323B2; US10035338B2; WO2017063900A1; WO2015173298A1; WO2015002749A1; WO2008027789A3; WO2008027789A2; US8980430B2; EP3455066B1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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